

- Kubernetes Engine
- Clusters
- Workloads
- Services
- Applications
- Configuration
- Storage
- Marketplace
- <1

Kubernetes clusters

[CREATE CLUSTER](#) [DEPLOY](#) [REFRESH](#) [DELETE](#) [SHOW INFO PANEL](#)

A Kubernetes cluster is a managed group of VM instances for running containerized applications. [Learn more](#)

Filter by label or name

<input type="checkbox"/>	Name ^	Location	Cluster size	Total cores	Total memory	Notifications	Labels	
<input type="checkbox"/>	bookshelf	us-west1-a	2	2 vCPUs	7.50 GB			Connect

Exercises for Google Kubernetes | Running the Python Bookshelf | Kubernetes Engine - bookshelf - | Cloud Shell - bookshelf - Google | 35.230.28.23

https://console.cloud.google.com/cloudshell/editor?project=bookshelf-244823&folder&organizationId

Cloud Shell

(bookshelf-244823)

```
kubeconfig entry generated for bookshelf.
NAME      LOCATION  MASTER_VERSION  MASTER_IP      MACHINE_TYPE  NODE_VERSION  NUM_NODES  STATUS
bookshelf us-west1-a 1.12.8-gke.10   35.185.213.156 n1-standard-1 1.12.8-gke.10 2          RUNNING

To take a quick anonymous survey, run:
$ gcloud alpha survey

hp9721_hp@cloudshell:~ (bookshelf-244823)$ git clone https://github.com/GoogleCloudPlatform/getting-started-python.git
fatal: destination path 'getting-started-python' already exists and is not an empty directory.
hp9721_hp@cloudshell:~ (bookshelf-244823)$ cd getting-started-python/optional-kubernetes-engine
hp9721_hp@cloudshell:~/getting-started-python/optional-kubernetes-engine (bookshelf-244823)$ gsutil mb gs://bookshelf-harshpatel
Creating gs://bookshelf-harshpatel/...
hp9721_hp@cloudshell:~/getting-started-python/optional-kubernetes-engine (bookshelf-244823)$ gsutil defacl set public-read gs://bookshelf-harshpatel
Setting default object ACL on gs://bookshelf-harshpatel/...
hp9721_hp@cloudshell:~/getting-started-python/optional-kubernetes-engine (bookshelf-244823)$ docker build -t gcr.io/bookshelf-244823/bookshelf .
Sending build context to Docker daemon 109.6kB
Step 1/8 : FROM gcr.io/google-appengine/python
--> 8c136754f9f9
Step 2/8 : RUN virtualenv -p python3.4 /env
--> Using cache
--> f88848f8f1cb
Step 3/8 : ENV VIRTUAL_ENV /env
--> Using cache
--> c36509b4e7da
Step 4/8 : ENV PATH /env/bin:$PATH
--> Using cache
--> 1866a5054e4f
Step 5/8 : ADD requirements.txt /app/requirements.txt
--> Using cache
--> 120708f4688f
Step 6/8 : RUN pip install -r /app/requirements.txt
--> Using cache
--> 9edfc7cd645d
Step 7/8 : ADD . /app
--> c0b24fbb94dd
Step 8/8 : CMD honcho start -f /app/procfile $PROCESSES
--> Running in da3fcff00004
Removing intermediate container da3fcff00004
--> 0a919192cf40
Successfully built 0a919192cf40
Successfully tagged gcr.io/bookshelf-244823/bookshelf:latest
hp9721_hp@cloudshell:~/getting-started-python/optional-kubernetes-engine (bookshelf-244823)$ gcloud docker -- push gcr.io/bookshelf-244823/bookshelf
WARNING: 'gcloud docker' will not be supported for Docker client versions above 18.03.

As an alternative, use 'gcloud auth configure-docker' to configure 'docker' to use 'gcloud' as a credential helper, then use 'docker' as you would for non-GCR registries, e.g. 'docker pull gcr.io/project-id/my-image'. Add '--verbosity=error' to silence this warning: 'gcloud docker --verbosity=error -- pull gcr.io/project-id/my-image'.

See: https://cloud.google.com/container-registry/docs/support/deprecation-notices#gcloud-docker

The push refers to repository [gcr.io/bookshelf-244823/bookshelf]
```

Type here to search

4:48 PM 6/25/2019

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Apps YouTube Maps News Gmail

Cloud Shell

(bookshelf-244823) x + ▾

```
Step 8/8 : CMD honcho start -f /app/procfile $PROCESSES
--> Running in da3fcff00004
Removing intermediate container da3fcff00004
--> 0a919192cf40
Successfully built 0a919192cf40
Successfully tagged gcr.io/bookshelf-244823/bookshelf:latest
hp9721 hp@cloudshell:~/getting-started-python/optional-kubernetes-engine (bookshelf-244823)$ gcloud docker -- push gcr
.io/bookshelf-244823/bookshelf
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--verbosity=error -- pull gcr.io/project-id/my-image'.

See: https://cloud.google.com/container-registry/docs/support/deprecation-notices#gcloud-docker

The push refers to repository [gcr.io/bookshelf-244823/bookshelf]
89d994c436e6: Preparing
4bf4b0aba7d0: Preparing
89d994c436e6: Pushed
d03515f57507: Mounted from network-security-243802/bookshelf
bcae119b29e1: Mounted from network-security-243802/bookshelf
f9534a71125b: Mounted from network-security-243802/bookshelf
479a542620d0: Mounted from network-security-243802/bookshelf
8a0ccebc4d7f: Mounted from network-security-243802/bookshelf
494ebd03317d: Mounted from network-security-243802/bookshelf
50c62821a878: Mounted from network-security-243802/bookshelf
8fcfc8b81b74: Mounted from network-security-243802/bookshelf
69522f9f1655: Mounted from network-security-243802/bookshelf
84ff92691f90: Mounted from network-security-243802/bookshelf
b7542f64ec39: Mounted from network-security-243802/bookshelf
ce3ead40c2e4: Mounted from network-security-243802/bookshelf
latest: digest: sha256:1e60aeb1d742b5680aa7f61f2daf62b0d07587500ec82347110a1f50d3f3d3e3 size: 3459
hp9721 hp@cloudshell:~/getting-started-python/optional-kubernetes-engine (bookshelf-244823)$ gcloud docker -- push gcr
.io/bookshelf-244823/bookshelf
WARNING: 'gcloud docker' will not be supported for Docker client versions above 18.03.

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use 'gcloud' as a credential helper, then use 'docker' as you would for non-GCR
registries, e.g. 'docker pull gcr.io/project-id/my-image'. Add
'--verbosity=error' to silence this warning: 'gcloud docker
--verbosity=error -- pull gcr.io/project-id/my-image'.

See: https://cloud.google.com/container-registry/docs/support/deprecation-notices#gcloud-docker

The push refers to repository [gcr.io/bookshelf-244823/bookshelf]
89d994c436e6: Preparing
4bf4b0aba7d0: Preparing
89d994c436e6: Layer already exists
d03515f57507: Layer already exists

The push refers to repository [gcr.io/bookshelf-244823/bookshelf]
89d994c436e6: Preparing
4bf4b0aba7d0: Preparing
89d994c436e6: Layer already exists
```

Windows Taskbar: Type here to search | [Icons: File Explorer, Mail, Store, Edge, Chrome] | [System Tray: Network, Volume, 4:48 PM 6/25/2019, 3 Notifications]

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Cloud Shell

(bookshelf-244823)

```
The push refers to repository [gcr.io/bookshelf-244823/bookshelf]
89d994c436e6: Preparing
4bf4b0aba7d0: Preparing
89d994c436e6: Layer already exists
d03515f57507: Layer already exists
bcae119b29e1: Layer already exists
f9534a71125b: Layer already exists
479a542620d0: Layer already exists
8a0ccebc4d7f: Layer already exists
494ebd03317d: Layer already exists
50c62821a878: Layer already exists
8fcfc8b81b74: Layer already exists
69522f9f1655: Layer already exists
84ff92691f90: Layer already exists
b7542f64ec39: Layer already exists
ce3ead40c2e4: Layer already exists
latest: digest: sha256:1e60aeb1d742b5680aa7f61f2daf62b0d07587500ec82347110a1f50d3f3d3e3 size: 3459
hp9721_hp@cloudshell: ~/getting-started-python/optional-kubernetes-engine (bookshelf-244823) $ kubectl create -f bookshelf-frontend.yaml
deployment.extensions/bookshelf-frontend created
hp9721_hp@cloudshell: ~/getting-started-python/optional-kubernetes-engine (bookshelf-244823) $ kubectl get deployments
hp9721_hp@cloudshell: ~/getting-started-python/optional-kubernetes-engine (bookshelf-244823) $ kubectl get deployments
NAME          DESIRED   CURRENT   UP-TO-DATE   AVAILABLE   AGE
bookshelf-frontend 3          3          3            0           31s
hp9721_hp@cloudshell: ~/getting-started-python/optional-kubernetes-engine (bookshelf-244823) $ kubectl create -f bookshelf-worker.yaml
deployment.extensions/bookshelf-worker created
hp9721_hp@cloudshell: ~/getting-started-python/optional-kubernetes-engine (bookshelf-244823) $ kubectl create -f bookshelf-service.yaml
service/bookshelf-frontend created
hp9721_hp@cloudshell: ~/getting-started-python/optional-kubernetes-engine (bookshelf-244823) $ kubectl describe servicebookshelf
Name:
Namespace:
Labels:
Annotations:
Selector:
Type:
IP:
Port:
TargetPort:
NodePort:
Endpoints:
Session Affinity:
External Traffic Policy:
Events:
Type      Reason          Age      From          Message
-----
Normal    EnsuringLoadBalancer 17s      service-controller    Ensuring load balancer
hp9721_hp@cloudshell: ~/getting-started-python/optional-kubernetes-engine (bookshelf-244823) $ kubectl get services -o wide
NAME          TYPE          CLUSTER-IP   EXTERNAL-IP   PORT(S)          AGE      SELECTOR
bookshelf-frontend  LoadBalancer  10.0.4.49     <pending>     80:32208/TCP     40s      app=bookshelf,tier=frontend
kubernetes     ClusterIP      10.0.0.1      <none>        443/TCP          13m      <none>
hp9721_hp@cloudshell: ~/getting-started-python/optional-kubernetes-engine (bookshelf-244823) $ kubectl get services -o wide
NAME          TYPE          CLUSTER-IP   EXTERNAL-IP   PORT(S)          AGE      SELECTOR
bookshelf-frontend  LoadBalancer  10.0.4.49     35.230.28.23  80:32208/TCP     54s      app=bookshelf,tier=frontend
kubernetes     ClusterIP      10.0.0.1      <none>        443/TCP          13m      <none>
hp9721_hp@cloudshell: ~/getting-started-python/optional-kubernetes-engine (bookshelf-244823) $
```

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docker is configured to use the default machine with IP 192.168.99.100
For help getting started, check out the docs at <https://docs.docker.com>

Start interactive shell

Harsh@DESKTOP-TDC1I3F MINGW64 /c/Program Files/Docker Toolbox

\$

Harsh@DESKTOP-TDC1I3F MINGW64 /c/Program Files/Docker Toolbox

\$

Project info

Project name
bookshelf

Project ID
bookshelf-244823

Project number
22920553673

[ADD PEOPLE TO THIS PROJECT](#)

[Go to project settings](#)

Resources

Compute Engine
2 instances

Storage
4 buckets

Trace

No trace data from the past 7 days

[Get started with Stackdriver Trace](#)

Getting Started

[API](#) Explore and enable APIs

[Deploy](#) Deploy a prebuilt solution

[Add dynamic logging](#) Add dynamic logging to a running application

Compute Engine

CPU (%)

instance/cpu/utilization: 0.169

[Go to Compute Engine](#)

API APIs

Requests (requests/sec)

Requests: 0.567

[Go to APIs overview](#)

Google Cloud Platform status

All services normal

[Go to Cloud status dashboard](#)

Billing

Estimated charges
For the billing period Jun 1 - 25, 2019

USD \$0.00

[View detailed charges](#)

Error Reporting

No sign of any errors. Have you set up Error Reporting?

[Learn how to set up Error Reporting](#)

News

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